

Environmental Field Working Group

Placeware Meeting March 11, 2003

CADD/GIS Technology Center Internet URL:

http://tsc.wes.army.mil



• Joint Field Working Group Meeting:

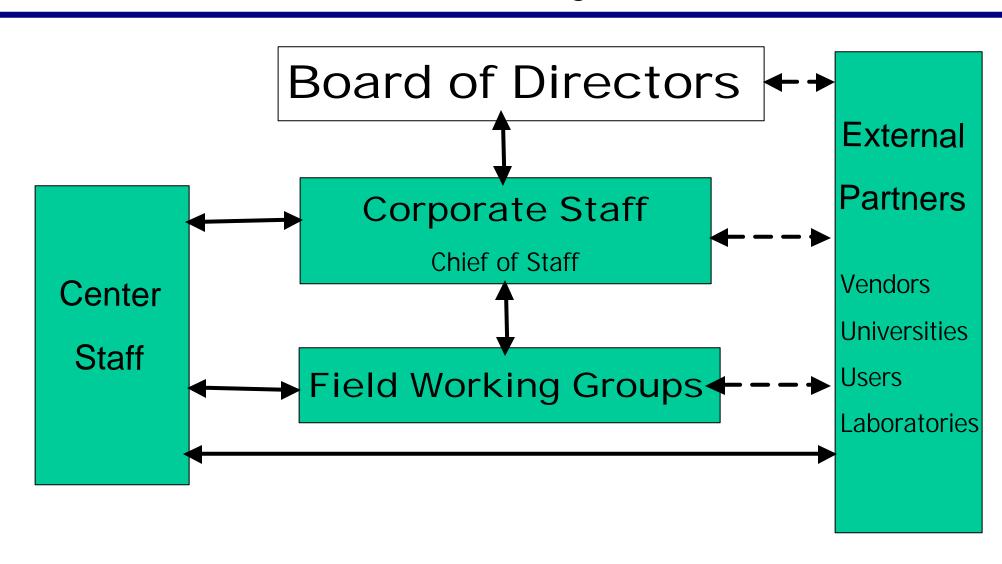
- When May 28 29, 2003
- Location Vicksburg, Mississippi



CADD/GIS Technology Center

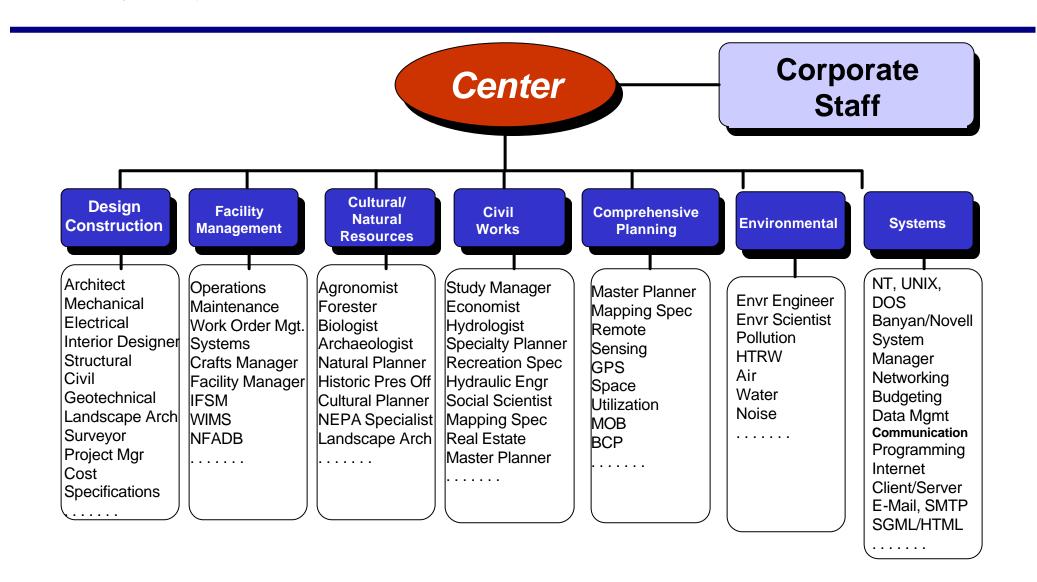
for facilities, infrastructure, and environment

Organizational Chart





Field Working Groups





CADD/GIS Center Projects

• Center Projects:

- Approved by Corporate Staff (CS) & Board of Directors (BOD) each Fiscal Year.
- Center typically accepts project proposals for next Fiscal Year during February – March.
 - Project proposals for FY04 can be submitted via Center's Internet Website during February March 2003.

– Categories:

- Core Mission (CADD, GIS, FM, & Object Standards) (45%)
- Mission Related (e.g., CADD, GIS, FM, & Information Technology Tools, Guidance) (30%)
- Mission Support (e.g., Center Internet/Intranet, Working Group Meetings, Symposium) (25%)



CADD/GIS Center Projects

• FY03 Center Projects:

- Total of 29 approved by Center's CS and BOD for FY03 (pending availability of funds).
- Categories
 - Core Mission 6 Projects
 - Mission Related 16 Projects
 - Mission Support 7 Projects



FY03 Mission Related Projects

- FY03 Projects Currently On-Hold Pending Availability of Funds:
 - 3.036 Historic & Digital Map Collection Methods & Online Retrieval Tool Development.
 - 2.030 Airfield Management Suite.
 - 3.005 Geotechnical Database.
 - 3.001 Populate A/E/C Compliant HVAC for TriForma 3D
 Cell Library and Preference Files.
 - 1.040 Use of GIS to Simplify Environmental Impact Analysis Process (EIAP).



Scope: Develop web and GIS based electronic checklist for Environmental Impact Analysis Process (EIAP). EIAP is method commonly used for ensuring that new construction projects are in compliance with National Environmental Policy Act (NEPA) legal requirements.

- Project Proposal originally submitted by Parrish
 Swearingen, Robins AFB, GA. Parrish now
 works for Tetra Tech EM, Inc.
- Project building on past/on-going work
 accomplished at Robins AFB and the Patuxent
 River Naval Air Station (PAX), Maryland.



By Jim Weaver / courtesy USFWS

Project Website:

http://tsc.wes.army.mil/contacts/groups/FWG/Environmental/envprojects/01.040/01_040.htm



Project to develop: (1) A web-based interactive EIAP checklist (i.e., checklist to ensure compliance with National Environmental Policy Act (NEPA), (2) link to Real Property Management (RPM) website, and (3) Data model and data standards content for incorporation into "transactional" FMSFIE Environmental Entity Set.

Status:

Part 1 (Funded in FY01) -

- Final detailed SOW completed on January 24, 2001.
- Contract awarded by Robins AFB to Tetra Tech, Inc., Atlanta, GA, in August 2001.
- Draft EIAP Web-Based Application and PAX/Robins NEPA Checklist Report completed in January 2002.
- Environmental FWG met with Tetra Tech, Inc. for project reviews on April 24-27, 2002 and June 4, 2002.
- Part 1 development completed in August 2002.

Part 2 (Funded in FY02) –

Contract awarded to Tetra Tech, Inc. in September 2002.

Part 3 (To Be Funded in FY03) –

Awaiting completion of Part 2 development and availability of FY03 funds.



- Web-Based Application requires installation on server with Microsoft Active Server Page (ASP) software.
- Can be accessed via
 Internet using Internet
 Explorer or Netscape
 browser. Requires
 download and installation
 of free Macromedia
 Shockwave Player plug-in.



Welcome to Environmental Impact Analysis Process Checklist Website!

The CADD/GIS Technology Center's mission establishes a multi-agency vehicle to coordinate facilities, infrastructure, and environmental use of Computer-Aided Design and Drafting and Geographic Information Systems (CADD/GIS) activities within the Department of Defense (DoD) and with other participating governmental (federal, state and local) agencies, and the private sector. This includes setting standards, promoting system integration, supporting centralized acquisition, and providing assistance for the installation, training, operation, and maintenance of CADD/GIS and facilities management (FM) systems. This also includes directing specific application developments, promoting communications, developing and promoting standards, furnishing technical advice, interfacing with professional organizations and industry, evaluating technological developments, and recommending necessary CADD/GIS and FM policy to ensure the maximum benefits are received from these technologies.

The National Environmental Policy Act (NEPA) requires every federal agency to systematically evaluate the environmental effects of their proposal for projects and program. However, the statute implementing NEPA are not detailed. There have been several approaches on creating a guidance for implementing the NEPA. This website goal is to create a checklist that can address the federal aspects of this statute.

http://tsc.wes.army.mil/contacts/groups/FWG/Environmental/envprojects/01.040/01_040.htm



Fiscal Year 2001 - 2002:

Project Scope & Status	Select Project No. 01.040 from Active Projects Website: http://tsc.wes.army.mil/projects/				
Project Overview	ppt digital format		pdf digital format		
Detailed Scope of Work	EIAP 12401.doc		ELAP 1	EIAP 120401.pdf	
Project Deliverables:					
Draft Web Based EIAP Application Username			& Password = SDSFIE		
Downloadable Version of Draft EIAP Application (August 2002)		Readme.txt	Installation Instructions	Eiap install doc	Eiap install.pdf
Create folder on your computer e & make sure "archive" is not che			zip to that directo	ory. Unzip, then "right-	click" on each file
Create subfolder entitled "data" ("data" folder & make sure "archi	e.g., eiap/dat	a). Download <u>eia</u>		t directory. Unzip, ther	n "right-click" on
Create subfolder entitled "images' click" on "images" folder & make	" (e.g., eiap/ii	mages). Downloa	id eiap images.zij		zip, then "right-
Create subfolder entitled "pdf" (e "images" folder & make sure "arc	#17501000000111115-T014-T014-T0161014			rectory. Unzip, then "r	ight-click" on
Report – Comparison of Robins AFB & Patuxent River Naval Air Station Environmental Review Checklist (July 2002)				pax robins compare.pdf	
Environmental Review Checklist Database (Microsoft Access) (February 2002)				Ecl model.zip	



Part 2 Action Items: Items denoted in red are underway

1. Prepare "EIAP Instructions" paper (Word 2000) to support: (a) Installation of NMCI compliant EIAP Application on web server, (b) Utilization and maintenance of EIAP Application, and (c) Deployment of EIAP application.

Deferred "Installation of NMCI compliant EIAP Application on web server" to to Part 3 (FY03 Funds).

Tetra Tech Comment – Will be putting together a user manual. Completion will be done when all changes to the Version 2 are complete. (Lead – Tracy Proud)

2. Change colors of codes (nothing, yellow and red).

Tetra Tech Comment – Color changes will be made to the introduction screen as well as the application. No color meaning section complete, yellow meaning section partially complete, and the red blocks meaning section is not complete. (Lead – Chris Martin)

3. Put "yes/no/don't know" in "background".

Tetra Tech Comment – Need further clarification. (Lead – Chris Martin)



Part 2 Action Items (Cont.): Items denoted in red are underway

4. Executable back button to look at previous questions.

Tetra Tech Comment – Back button will be added to allow for one step back only. Any further would disrupt NEPA decision tree logic. (Lead – Chris Martin)

5. Establish suggested SDSFIE compliant base map entity types for all Checklist questions (I thought the perspective as the CADD/GIS Technology Center here was to suggest the base map entity types that would be useful for a question and then each installation could choose which ones to create/use from that list. As opposed to suggesting the minimum base map entity types, having each installation do some homework and possibly adding to the list).

Tetra Tech Comment – Minimum Entity Type for Base map, as well Entity Type for each corresponding question will be posted on each question on the right portion of the input screen. This list will be based on input from the last EFWG meeting. (Lead – Tracy Proud)



Part 2 Action Items (Cont.): Items denoted in red are underway

6. Summary bullet in front of answer (message). I'm not sure what this is.

Tetra Tech Comment – Need further clarification from the EFWG (Lead – Tracy Proud).

7. Password protect administrator tools.

Tetra Tech Comment – All Administrator Tools components might be better suited to an ASP version. (Lead – Chris Martin)

8. Sections should have intuitive names.

Tetra Tech Comment – Each section will follow the 4 pillows of Environmental: Restoration, Conservation, Compliance, and Pollution Prevention. (Lead – Tracy Martin)

9. Add comments field to the questions and the reports.

Tetra Tech Comment – A comment field will be added in the input screen. The location will be below the Yes/No/Don't Know" buttons. These comments will then be presented in the summary report. (Lead – Chris Martin)



Part 2 Action Items (Cont.): Items denoted in red are underway

10. Establish automated tracking number (Use Work Item/Number) and the ability of an installation to link to their current Work Item/Numbering system.

Tetra Tech Comment – This can be done however it would be better suited to an ASP version. (Lead – Chris Martin)

11. Break down summary reports to include comments from questions and comments concerning the report.

Tetra Tech Comment – A comment field will be added in the input screen. The location will be below the "Yes/No/Don't Know" buttons. These comments will then be presented in the summary report. (Lead – Chris Martin)

12. Fit to full screen.

Tetra Tech Comment – Will have to be done in the ASP version. (Lead – Chris Martin)



Part 2 Action Items (Cont.): Items denoted in red are underway

13. Incorporate Search Tool.

Tetra Tech Comment – What search capabilities are requested? Any heavy search engine will have to be done in the ASP version. (Lead – Chris Martin)

14. Document rights/privileges of users/administrators.

Tetra Tech Comment – Will be putting together a user manual. Completion will be done when all changes to the Version 2 are complete. (Lead – Tracy Proud)

15. Establish "Save as" option that allows the environmental review for one project to be copied over to another project number.

Tetra Tech Comment – Will be completed. (Lead – Chris Martin)

16. Edit capability within summary documentation.

Tetra Tech Comment – Because of the complex logic behind each question it is not practical to edit during the summary table. This can only be done through the existing edit button located on the summary page. (Lead – Chris Martin)



Part 2 Action Items (Cont.): Items denoted in red are underway

17. Establish links to appropriate Federal regulations at CADD/GIS Technology Center's Federal Real Property Management Regulations (RPM) website -

http://tsc.wes.army.mil/rpm/

- Tetra Tech Comment Prior to any links being made further clarification will have to be given as to what and where the links will be made. (Lead Tracy Proud)
- 18. Update content and Appendix C of "Comparison of Robins AFB & Patuxent River Naval Air Station Environmental Review Checklist" report, incorporating comments received from Environmental FWG and PAX during FY02 and the updated questions to date.

Tetra Tech Comment – This document will be made final and will include comments received from the EFWG meeting as well as the new checklist questions received from PAX during FY02. (Lead – Tracy Proud)



Part 2 Action Items (Cont.): Items denoted in red are underway

- 19. Provide information concerning how to use the software, connect to a GIS, and the base map entity types defined as part of the HELP file, and "EIAP Instructions" paper.
- Tetra Tech Comment Will be putting together a user manual. Completion will be done when all changes to the Version 2 are complete. (Lead Tracy Proud)
- 20. Prepare draft logical data model for incorporation of EIAP decision tree data into transactional Facility Management Standard (FMSFIE).
- Tetra Tech Comment Will be obtaining the FMSFIE data model from the website to incorporate EIAP into data model. (Lead Tracy Proud)
- 21. Design EIAP Application to record the EIAP decision tree data in a Microsoft Access (2000) database. Is this what we really want or should we leave it open for the contractor to determine the best database that is NMCI compliant?

Tetra Tech Comment – ????????



Part 2 Action Items (Cont.): Items denoted in red are underway

22. Permit the User to be able to move from one section to another without being forced to answer all of the questions sequentially. Currently, all questions in each section have to be answered before being able to go to the next section.

Tetra Tech Comment – Will be completed and put on Version 2. (Lead – Chris Martin)

23. Change wording on website and in application to "third" person, rather than first person.

Tetra Tech Comment – Will be completed. (Lead – Tracy Proud)

24. If there are no action items, the user should simply move forward (i.e. see the next question) rather than have a statement saying "x,y,z" is not required and then requiring the user to click on this statement in order to move forward.

Tetra Tech Comment – If you answer "No", then no "Note:" will appear and you will move to the next question. This will be completed. (Lead – Chris Martin)



Part 2 Action Items (Cont.): Items denoted in red are underway

- 25. Update EIAP Questions to be consistent with the updated PAX Questions (POC Lasandra Teeters).
- Tetra Tech Comment All questions have been QC'd by the EFWG during the Atlanta meeting and those changes will be incorporated into Version 2. The updated PAX question will be reviewed and cross referenced to see if any additional changes should be made, if changes are required they will be approved by the EFWG prior to incorporation into Version 2.
- 26. With the new NMCI contract, the Navy and Marine Corps will not be able to download and install the Shockwave plug-in. Also, Microsoft ASP may not be used. Provide brief discussion/recommendations paper concerning the provision of a platform independent NMCI compliant web-based EIAP application for Part 3 development (to be funded in FY03).
- Tetra Tech Comment A recommendation letter will be drafted for the EFWG which will include migration strategies for Version 3. Tetra Tech needs input on what platform can be utilized prior to setting a completion date.



Part 2 Action Items (Cont.): Items denoted in red are underway

- 27. Additional considerations:
- a. The government will own the code. Contractor will deliver CD containing all source code.
- b. The final software should be easily editable by government personnel (i.e. non-technical personnel via a module). The final software must have the capability to:
 - i. Add/Delete/Edit sections, section names, and modify section order.
 - ii. Add/Delete/Edit questions and modify question order.



• Nobility, Inc.

- Website http://www.nobility.com
- Office Location Vancouver, BC
- One of Products (Nobility EM) is similar to the EIAP application.
- One implementation is at White Sands Missile Range, NM.
- Do we want to invite Nobility to the May meeting, or arrange a meeting at White Sands?



QUESTIONS?

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CADD GIS Technology Center Internet URL:

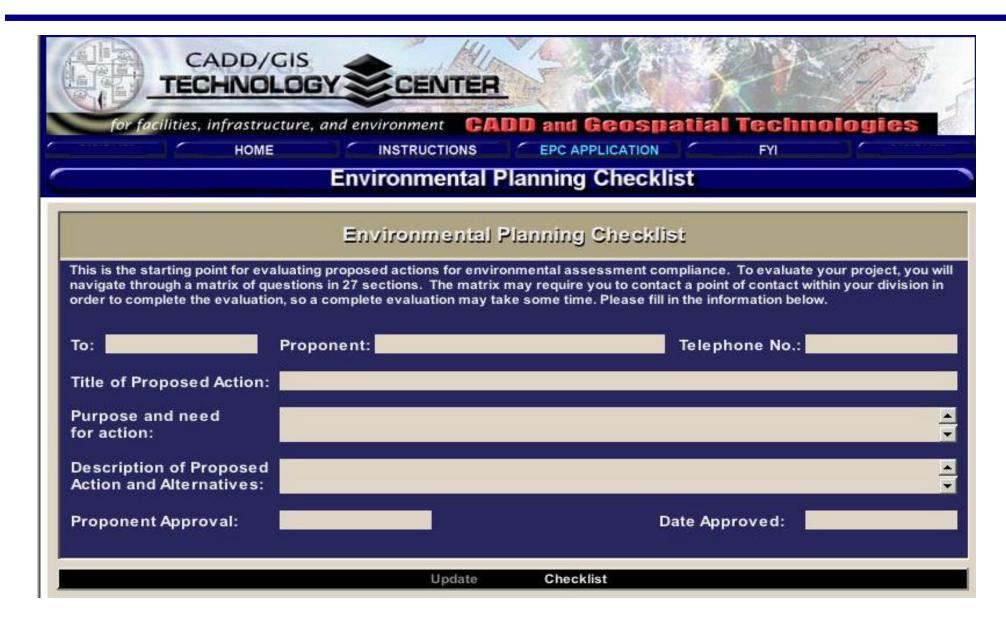
http://tsc.wes.army.mil



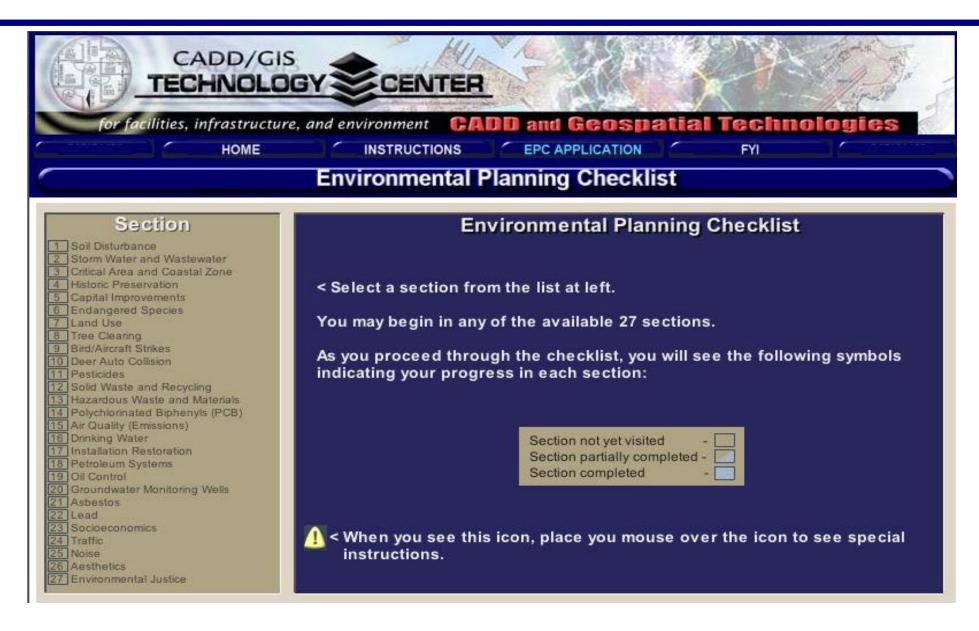




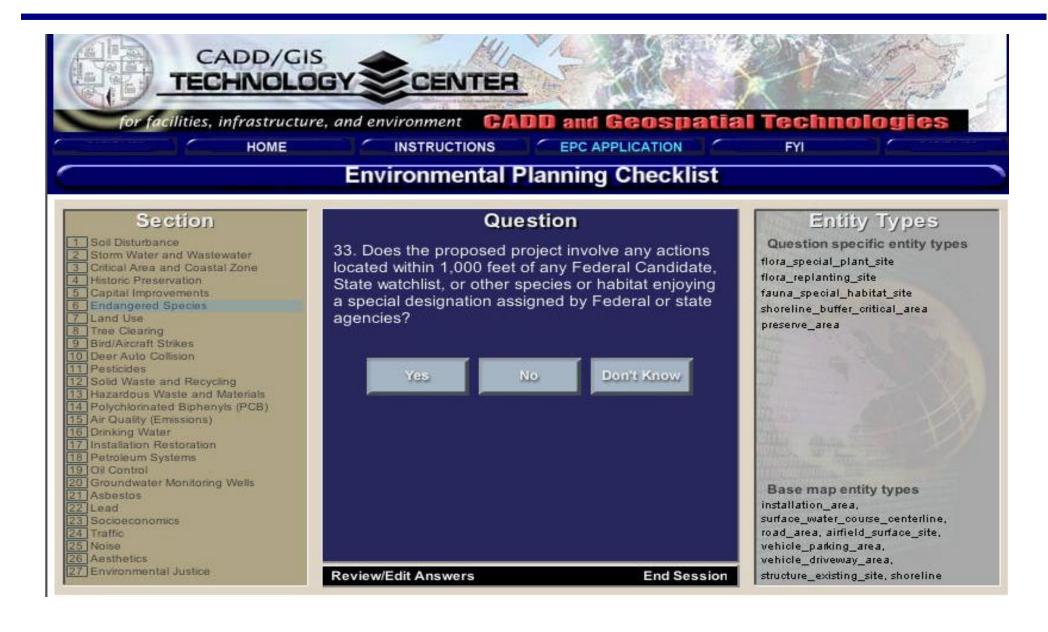














FY03 Core Mission Projects

- 96.013 Spatial Data Standard (SDSFIE) for Facilities, Infrastructure, and Environment
- 96.015 Facility Management Standard (FMSFIE) for Facilities, Infrastructure, and Environment
- 96.017 Maintenance, Revision, and Implementation of A/E/C CADD Standard
- 96.003 Federal Geographic Data Committee (FGDC) Participation
- 96.055 Support of National Institute of Building Sciences (NIBS) Facility Information Council
- 1.044 Consolidated Object Strategy



FY03 Mission Support Projects

- **96.001** Publishing the CADD/GIS Insights (Web Bulletin)
- 96.011 Center Internet & Intranet Technology
- **96.150** Marketing
- 96.200 Support of BOD, Corporate Staff, and FWG
- 96.210 Equipment (Maintenance Support)
- 99.021 Foundation Knowledge Web Portal
- 99.035 Balanced Scorecard



FY03 Mission Related Projects

- 96.023 Generic CADD Details Library Update
- 98.190 Continued Support of Electronic Bid Solicitation (EBS)
- 1.039 Development of FMSFIE Work Management Entity Set
- 2.042 Spatial Data Standard for Historic Buildings and Structures
- 3.003 Structural Detail Library Additions
- 3.006 Standard Practice for Preparation of As-Built CADD Files
- 3.009 Interior Design Furniture Procurement Software
- 3.013 Develop FEMA Hazard and Disaster Entities Within the SDSFIE
- 3.019 Addition of Geospatial Range and Operational Area Data Entities to Current SDSFIE



FY03 Mission Related Projects

- 3.023 GIS Techniques for Assessing Military Encroachment for Natural and Cultural Resources
- 3.025 A/E/C CADD Standard Compliant Drawing Set
- 3.029 MORS Map Organization and Retrieval System